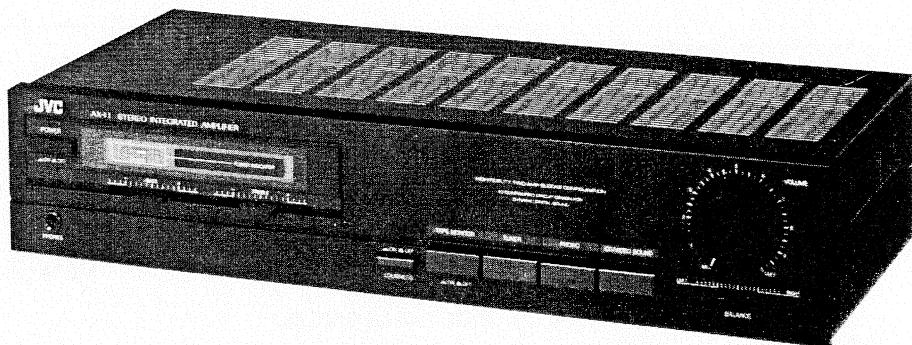


JVC

SERVICE MANUAL

STEREO INTEGRATED AMPLIFIER

MODEL No. **AX-11BK**



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This manual combines two single volumes; Service manual and Parts list.

No. 2924
Apr. 1986

Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes.
For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of the service manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in the service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check
(Electrical shock hazard testing)
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the pro-

duct is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- Alternate check method.
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a $0.15\mu F$ AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.).
This corresponds to 0.5 mA AC (r.m.s.).

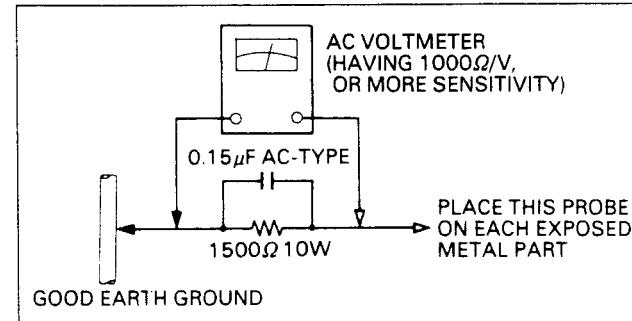
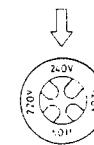


Fig. 1

CHECKING YOUR LINE VOLTAGE (Except for U.S.A., Canada, U.K., Continental Europe and Australia)

Before inserting the power plug, please check this setting to see that it corresponds with the line voltage in your area. If it doesn't be sure to adjust the voltage selector switch to the proper setting before operating this equipment. The voltage selector switch is located on the rear panel.

CAUTION: Before setting the "Voltage selector switch" to the proper voltage, disconnect the power plug.



Removal and Reassembly Procedures

■ Removal of the Main P.C. Board

1. Remove the metal cover.
2. Remove screws ① and ② on the P.C. board

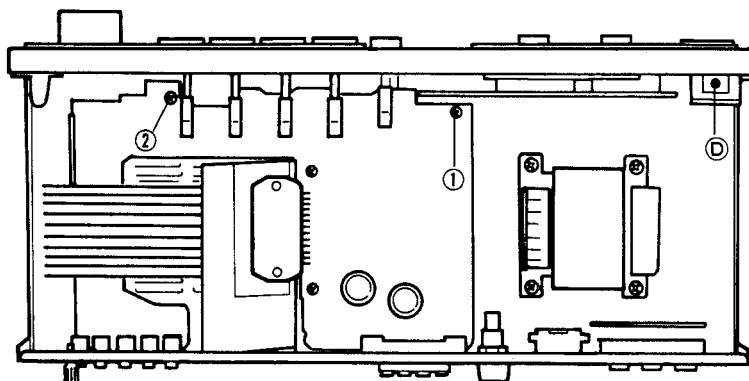


Fig. 2

3. Remove screws ③ ~ ⑧ on the rear panel shown in Fig. 3.

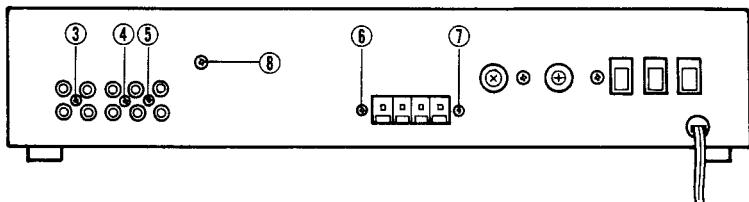


Fig. 3

4. Remove screws ④ ~ ⑩ and plastic rivet ⑪ to set the front panel free. (Fig. 2, Fig. 4)
5. Remove screws ⑬ ~ ⑯ on the bottom side shown in Fig. 4.

Note:

As three types of fixing screw are used for the base, make sure the screws are correct when reinstalling.

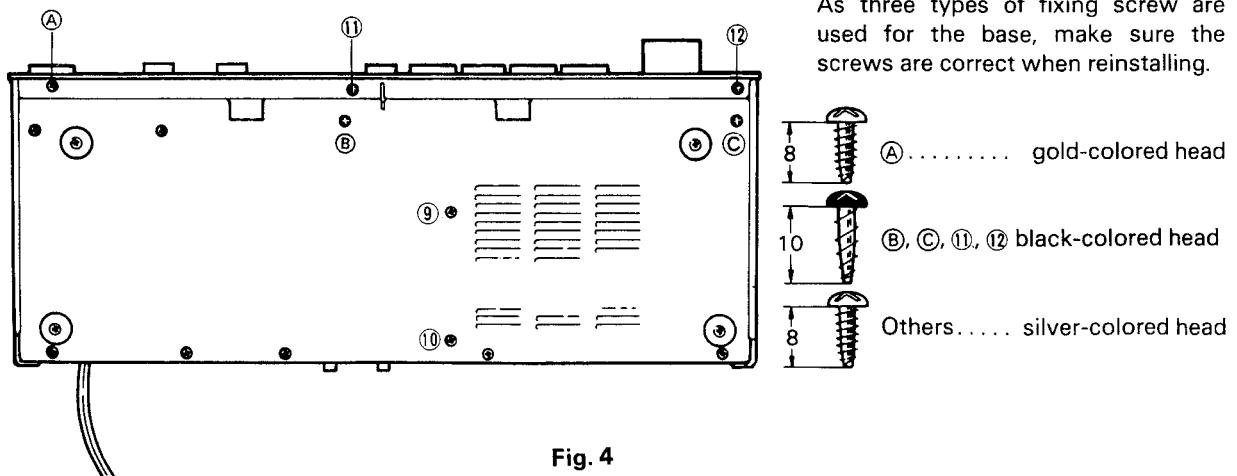
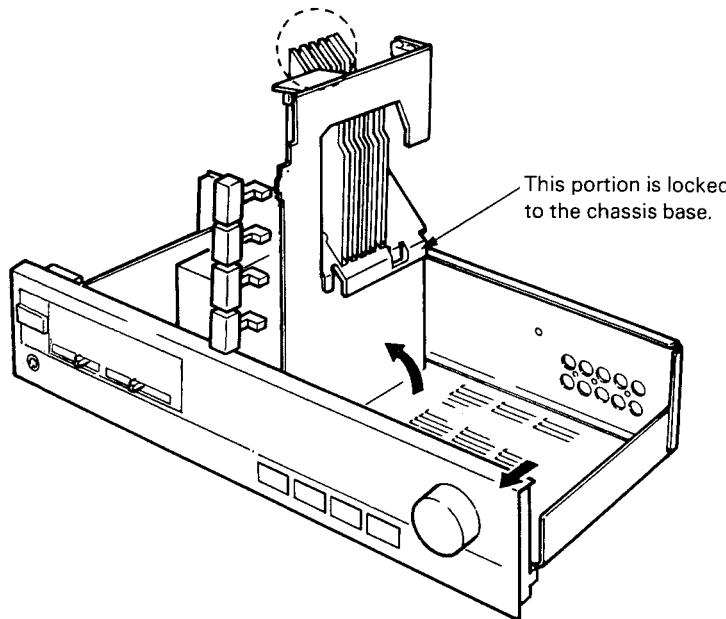


Fig. 4

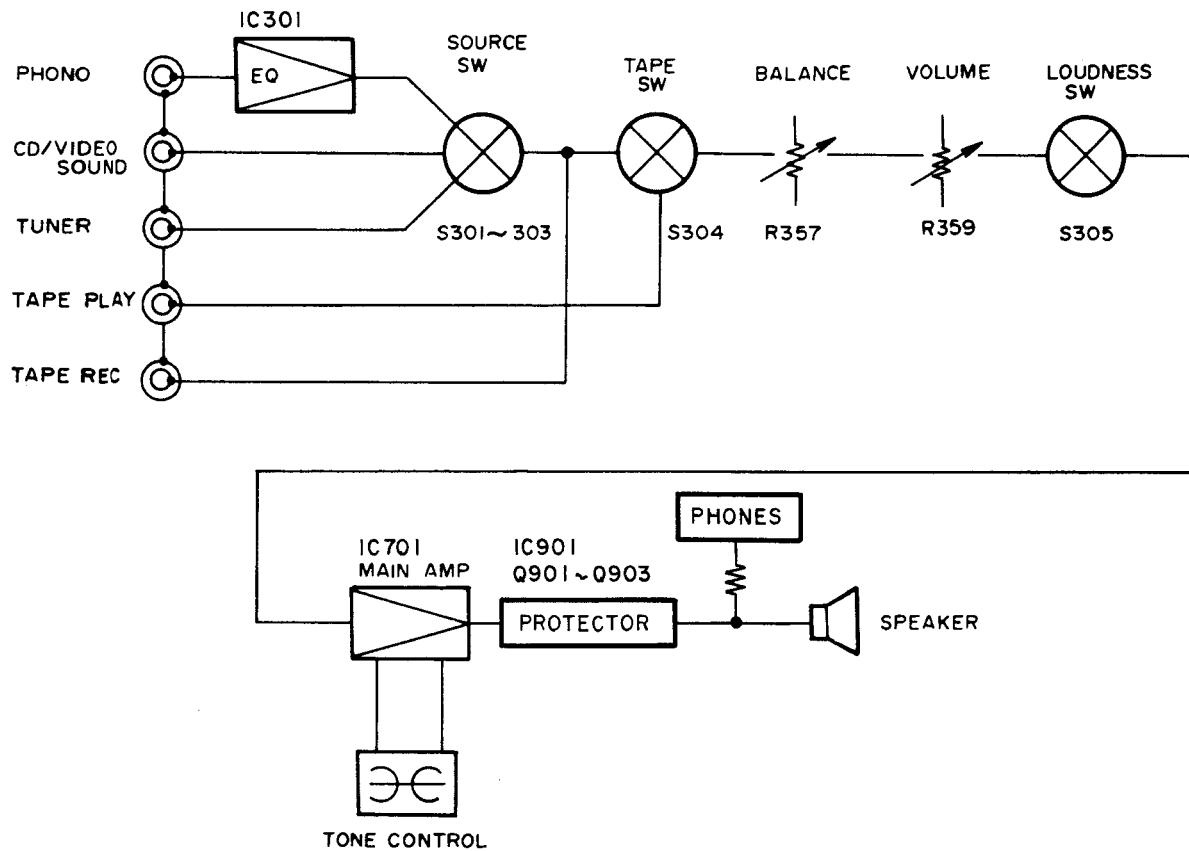
6. Slightly pull the front panel forward to raise the P.C. board as shown in Fig. 5.



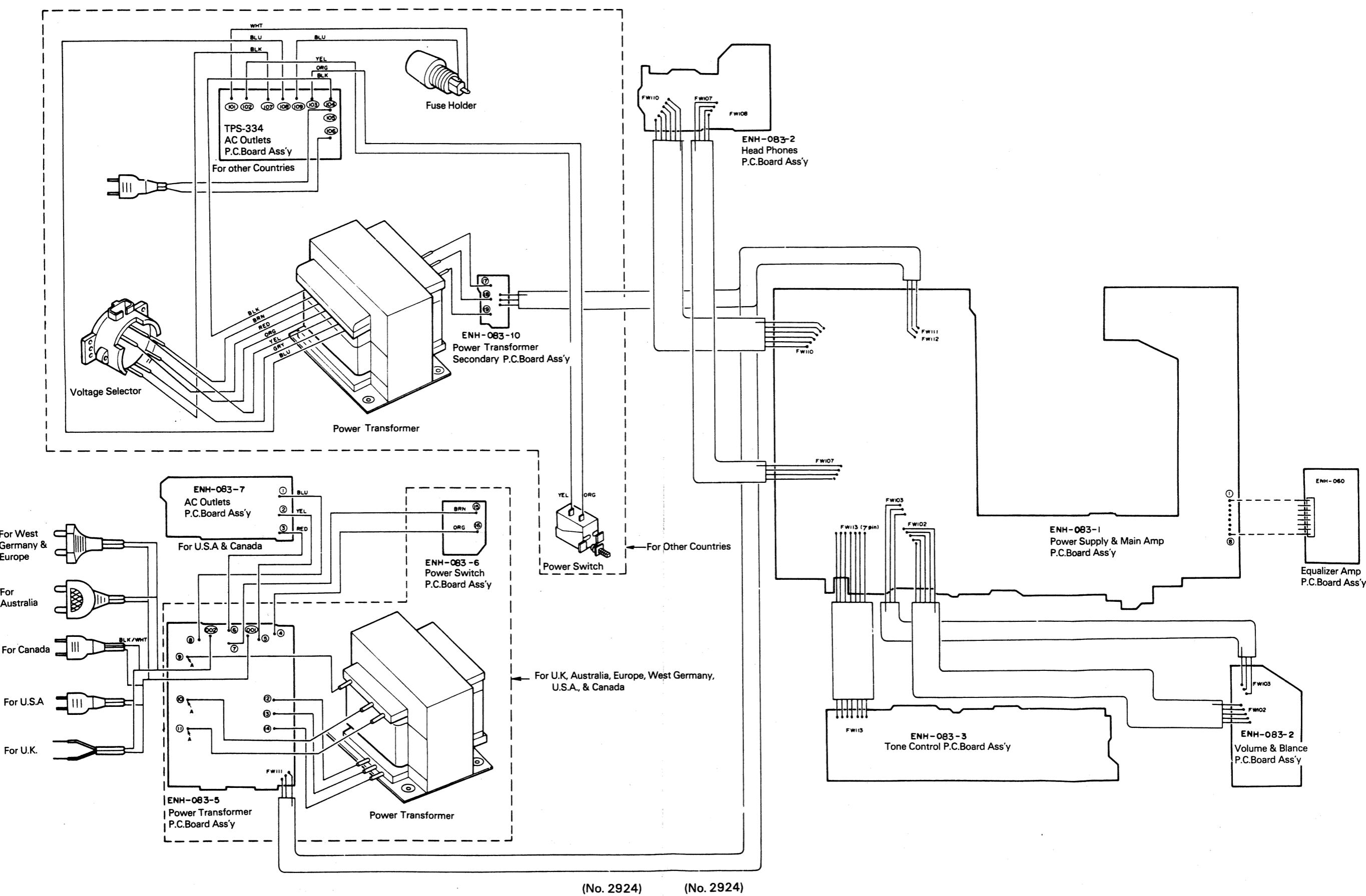
Note: Care should be taken not to deform the part of the heat sink indicated by () when pulling out the P.C. board. Otherwise, it may result in reducing the efficiency of heat dissipation.

Fig. 5

Block diagram



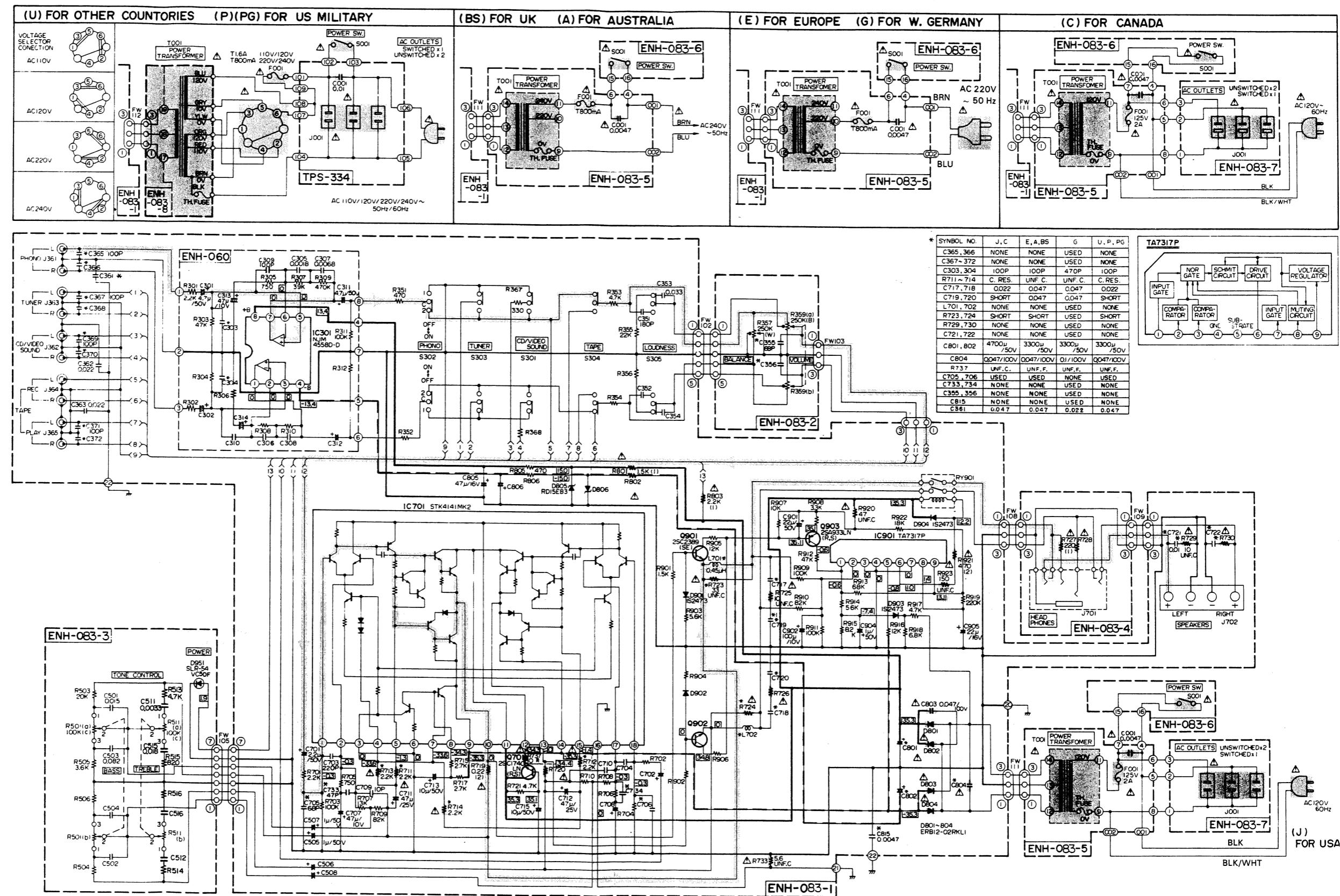
Connection Diagram



(No. 2924)

(No. 2924)

Schematic Diagram



Notes:

- indicates positive B power supply.
- indicates negative B power supply.
- indicates signal path.
- shows DC voltage to the chassis with no signal input.
- When replacing the parts in the darkened area (■■■) and those marked with △, be sure to use the designated parts to ensure safety.
- This is the standard circuit diagram.

The design and contents are subject to change without notice.

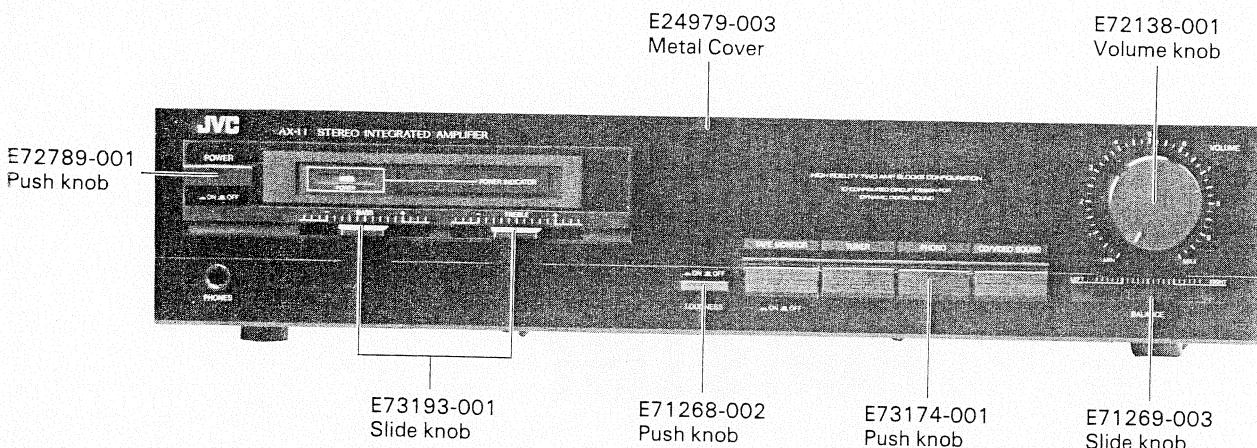
PARTS LIST

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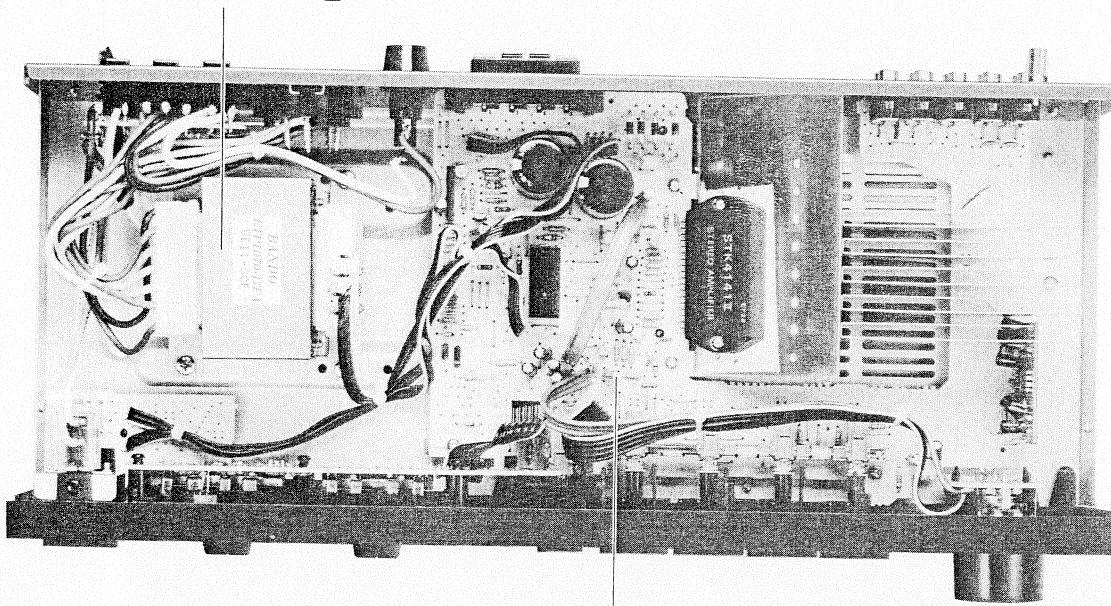
Main Parts Location

■ Front View



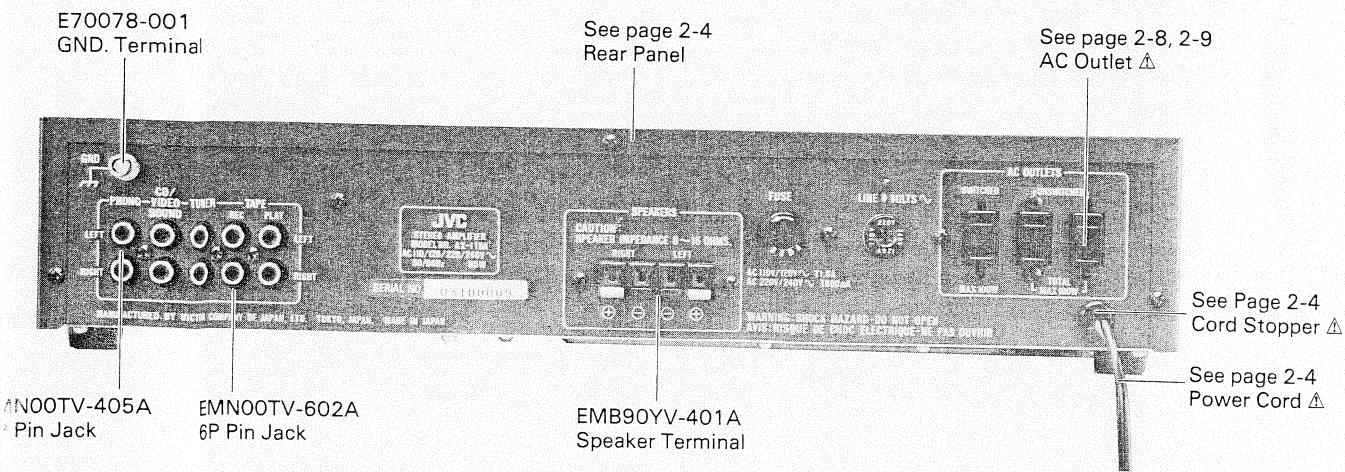
■ Top View

See page.
Power Transformer △



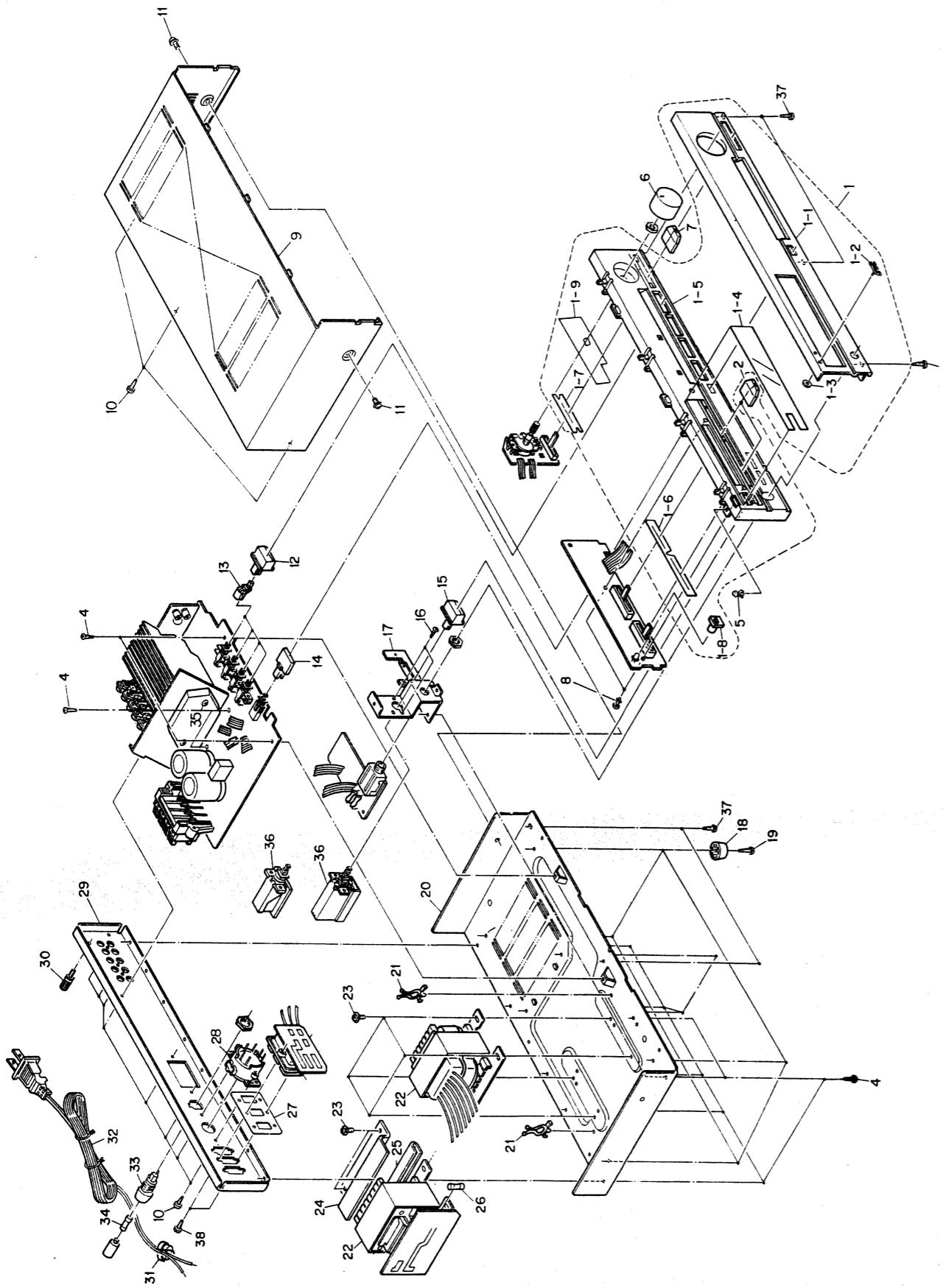
ENH-083 □
Main Amp. PC Board Ass'y

■ Rear View



△ : Safety Parts

Exploded View and Part List



Parts List

| △ | Item No. | Part Number | Part Name | Q'ty | Description | Areas |
|---|----------|----------------|-------------------|------|-------------|-------------|
| | 1 | EFP-AX11BKE | Front Panel Ass'y | 1 | | |
| | 1-1 | E25348-002 | Front Panel | 1 | | |
| | 1-2 | E72968-001 | JVC Mark | 1 | | |
| | 1-3 | E60912-003 | Speed Nut | 1 | | |
| | 1-4 | E304234-002 | Screen | 1 | | |
| | 1-5 | E11298-002 | Front Base | 1 | | |
| | 1-6 | E73176-001 | Felt Spacer | 1 | | |
| | 1-7 | E72142-002 | Felt Spacer | 1 | | |
| | 1-8 | E72153-001 | Indicator Sheet | 1 | | |
| | 1-9 | E72353-001 | | 1 | | |
| | 2 | E73193-001 | Slide Knob | 2 | | |
| | 3 | SBSB3008Z | Screw | 1 | | |
| | 4 | SBSB3008N | Screw | 11 | | |
| | 5 | E48729-009 | Plastic Rivet | 1 | | |
| | 6 | E72138-001 | Volume Knob | 1 | | |
| | 7 | E71269-003 | Slide Knob | 1 | | |
| | 8 | E48729-007 | Plastic Rivet | 3 | | |
| | 9 | E24979-003 | Metal Cover | 1 | | |
| | 10 | SBSB3008M | Screw | 13 | | |
| | 11 | E61660-004 | Screw | 2 | | |
| | 12 | E73174-001 | Push Knob | 4 | | |
| | 13 | E71235-001 | Push Shaft | 4 | | |
| | 14 | E71268-002 | Push Knob | 1 | | |
| | 15 | E72789-001 | Push Knob | 1 | | |
| | 16 | SBST3006Z | Screw | 2 | | |
| | 17 | E304233-002 | Bracket | 1 | | |
| | 18 | E47227-012 | Foot | 4 | | |
| | 19 | SBSB3010N | Screw | 4 | | |
| | 20 | E11117-002 | Chassis Base | 1 | | |
| | 21 | QHW2052-001 | Wire Clamp | 2 | | |
| △ | 22 | ETP1070-17JA | Power Transformer | 1 | | J, C |
| △ | | ETP1070-17FA | | 1 | | U, P, PG |
| △ | | ETP1070-17EA | | 1 | | E, A, G |
| △ | 23 | ETP1070-17EABS | Power Transformer | 1 | | BS |
| | | E65389-002 | Screw | 4 | | |
| | 24 | E72347-001 | Bracket | 1 | | J, C |
| | 25 | E72352-001 | Spacer | 1 | | J, C |
| △ | 26 | QMF51U1-2R0 | Fuse | 1 | | J, C |
| △ | | QMF51A2-R80S | Fuse | 1 | | |
| △ | | QMF51E2-R80SBS | Fuse | 1 | | BS |
| △ | 27 | E69589-010 | Spacer | 1 | | J |
| △ | 28 | QSR0085-008U | Voltage Selector | 1 | | U, P, PG |
| △ | 29 | E24977-023 | Rear Panel | 1 | | J, C |
| △ | | E24977-024 | Rear Panel | 1 | | E, A, G, BS |
| △ | | E24977-025 | Rear Panel | 1 | | U, P, PG |
| | 30 | E70078-001 | GND. Terminal | 1 | | |
| △ | 31 | QHS3876-162 | Cord Stopper | 1 | | Except BS |
| △ | | QHS3876-162BS | Cord Stopper | 1 | | BS |
| △ | 32 | QMP1340-200 | Power Cord | 1 | | C, J |
| △ | | QMP7600-200 | Power Cord | 1 | | U, P, PG |
| △ | 33 | QMP3900-200 | Power Cord | 1 | | E, G |
| △ | | QMP2560-244 | Power Cord | 1 | | A |
| △ | 34 | QMP9017-008BS | Power Cord | 1 | | U, P, PG |
| △ | | QMG0301-003 | Fuse Holder | 1 | | U, P, PG |
| △ | | QMF51A2-R80S | Fuse | 1 | | U, PG |

| △ | Item No. | Part Number | Part Name | Q'ty | Description | Areas |
|---|----------|---------------|--------------|------|-------------|-----------|
| △ | 35 | QMF51A2-1R6S | Fuse | 1 | | P |
| △ | 36 | SBSA3014Z | Screw | 2 | | |
| △ | 36 | QSP1106-004 | Power Switch | 1 | | Except BS |
| △ | 37 | QSP1106-004BS | Power Switch | 1 | | BS |
| △ | 37 | SBSF3010M | Screw | 4 | | E, G |
| — | 38 | E302723-037 | Rating Label | 4 | | |
| | | SDSB3008M | Screw | 2 | | E,G |

△: Safety Parts

The Marks for Designated Areas

- J..... U.S.A.
 C..... Canada
 E..... Europe
 G..... West Germany
 BS..... U.K.
 P, PG..... U.S. Military Market
 U..... Other Countries

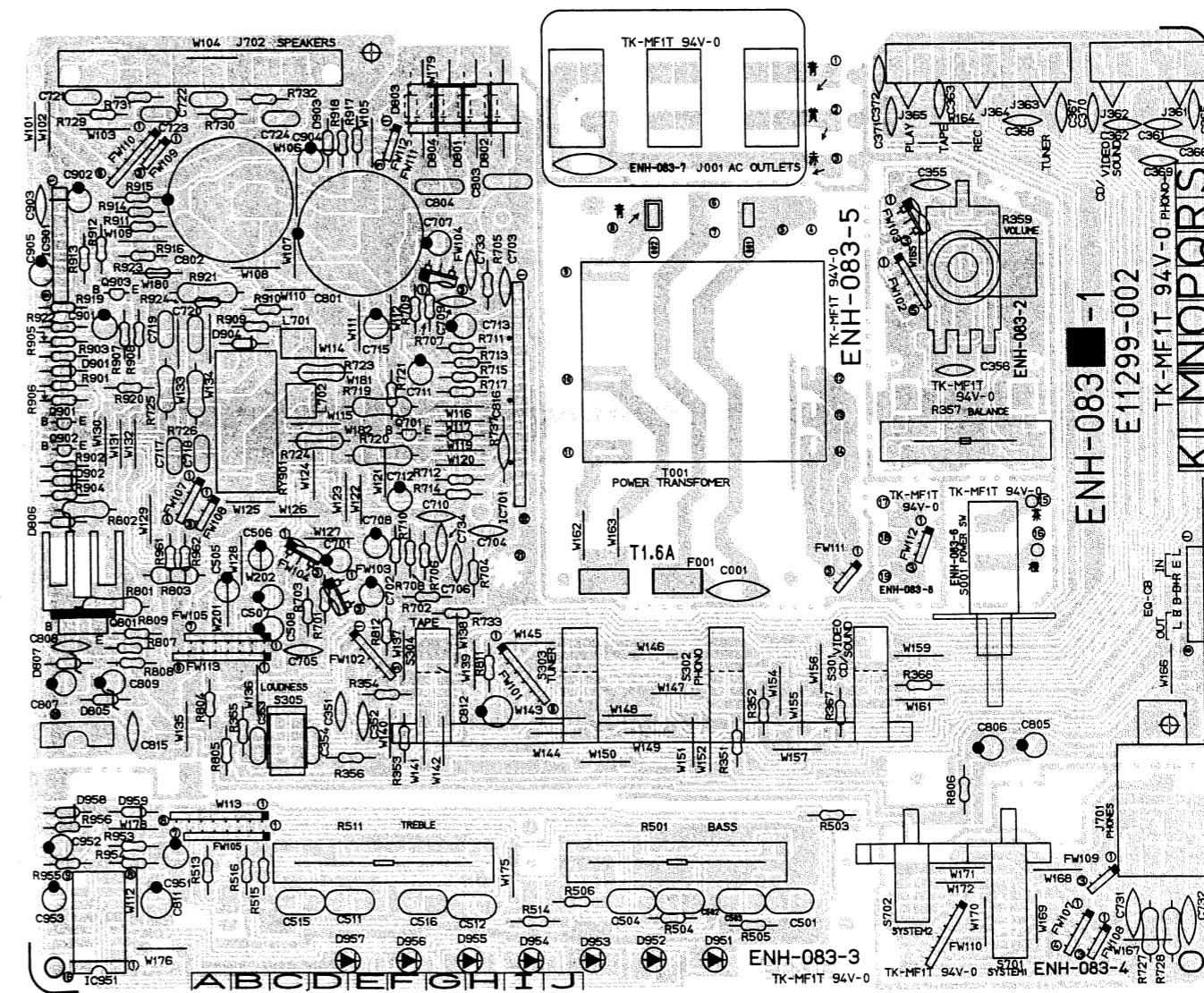
No marks indicates all areas.

Printed Circuit Board Ass'y and Parts List**■ ENH-083 □ Main Amp. PC Board Ass'y**

Note: ENH-083 □ Varies according to the areas employed. See note (1) when placing on order.

Note (1)

| P.C. Board Ass'y | Designated Areas |
|------------------|---------------------------------------|
| ENH-083 [B] | U.S.A & Canada |
| ENH-083 [C] | U.S.Military Market & Other Countries |
| ENH-083 [E] | Europe |
| ENH-083 [F] | U.K. |
| ENH-083 [G] | Australia |
| ENH-083 [H] | West Germany |



TRANSISTOR

| △ | ITEM | PART NUMBER | DESCRIPTION | AREA | MAKER |
|---|------|----------------|-------------|------|-------|
| | | | | | |
| | Q701 | 2SC1740LN(R,S) | SILICON | ROHM | |
| | Q901 | 2SC2389(S,E) | SILICON | ROHM | |
| | Q902 | 2SC2389(S,E) | SILICON | ROHM | |
| | Q903 | 2SA933LN(R,S) | SILICON | ROHM | |

△ : SAFETY PARTS

I. C. S

| △ | ITEM | PART NUMBER | DESCRIPTION | AREA | MAKER |
|---|-------|-------------|-------------|---------|-------|
| | | | | | |
| | IC701 | STK4141MK2 | I.C. | SANYO | |
| | IC901 | TA7317P | I.C. | TOSHIBA | |

△ : SAFETY PARTS

DIODES

| △ | ITEM | PART NUMBER | DESCRIPTION | AREA | MAKER |
|---|------|----------------|-------------|------|-------|
| | | | | | |
| | D801 | ERB12-02RKL1 | SILICON | | |
| | D802 | ERB12-02RKL1 | SILICON | | |
| | D803 | ERB12-02RKL1 | SILICON | | |
| | D804 | ERB12-02RKL1 | SILICON | | |
| | D805 | RD15EB3 | ZENER | NEC | |
| | D806 | RD15EB3 | ZENER | NEC | |
| | D901 | 1S2473 | SILICON | ROHM | |
| | D902 | 1S2473 | SILICON | ROHM | |
| | D903 | 1S2473 | SILICON | ROHM | |
| | D904 | 1S2473 | SILICON | ROHM | |
| | D951 | SLR-54VC50F165 | L.E.D. | ROHM | |

△ : SAFETY PARTS

CAPACITORS

| △ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|-------------|-------------|-------------|------|
| C001 | QCZ9019-472 | 4700PF | CERAMIC | B |
| C001 | QCZ9019-472 | 4700PF | CERAMIC | E |
| C001 | QCZ9019-472 | 4700PF | CERAMIC | FBS |
| C001 | QCZ9019-472 | 4700PF | CERAMIC | G |
| C001 | QCZ9019-472 | 4700PF | CERAMIC | H |
| C351 | QCS21HJ-181 | 180PF | 50V CERAMIC | |
| C352 | QCS21HJ-181 | 180PF | 50V CERAMIC | |
| C353 | QFN81HK-333 | 0.033MF | 50V MYLAR | |
| C354 | QFN81HK-333 | 0.033MF | 50V MYLAR | |
| C355 | QCS21HJ-680 | 68PF | 50V CERAMIC | H |
| C356 | QCS21HJ-680 | 68PF | 50V CERAMIC | H |
| C361 | QCF21HP-223 | 0.022MF | 50V CERAMIC | H |
| C361 | QCF21HP-473 | 0.047MF | 50V CERAMIC | B |
| C361 | QCF21HP-473 | 0.047MF | 50V CERAMIC | C |
| C361 | QCF21HP-473 | 0.047MF | 50V CERAMIC | E |
| C361 | QCF21HP-473 | 0.047MF | 50V CERAMIC | FBS |
| C361 | QCF21HP-473 | 0.047MF | 50V CERAMIC | G |
| C362 | QCF21HP-223 | 0.022MF | 50V CERAMIC | |
| C363 | QCF21HP-223 | 0.022MF | 50V CERAMIC | |
| C365 | QCS21HJ-101 | 100PF | 50V CERAMIC | H |
| C366 | QCS21HJ-101 | 100PF | 50V CERAMIC | H |
| C367 | QCS21HJ-101 | 100PF | 50V CERAMIC | H |
| C368 | QCS21HJ-101 | 100PF | 50V CERAMIC | H |
| C369 | QCS21HJ-101 | 100PF | 50V CERAMIC | H |
| C370 | QCS21HJ-101 | 100PF | 50V CERAMIC | H |
| C371 | QCS21HJ-101 | 100PF | 50V CERAMIC | H |
| C372 | QCS21HJ-101 | 100PF | 50V CERAMIC | H |
| C501 | QFN81HK-153 | 0.015MF | 50V MYLAR | |
| C502 | QFN81HK-153 | 0.015MF | 50V MYLAR | |
| C503 | QFN81HK-823 | 0.082MF | 50V MYLAR | |
| C504 | QFN81HK-823 | 0.082MF | 50V MYLAR | |
| C505 | QETB1HM-105 | 1MF | 50V ELECTRO | |
| C506 | QETB1HM-105 | 1MF | 50V ELECTRO | |
| C507 | QETB1HM-105 | 1MF | 50V ELECTRO | |
| C508 | QETB1HM-105 | 1MF | 50V ELECTRO | |

△ : SAFETY PARTS

CAPACITORS

| △ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|-------------|-------------|--------------|------|
| C511 | QFN81HK-332 | 3300PF | 50V MYLAR | |
| C512 | QFN81HK-332 | 3300PF | 50V MYLAR | |
| C515 | QFN81HK-183 | 0.018MF | 50V MYLAR | |
| C516 | QFN81HK-183 | 0.018MF | 50V MYLAR | |
| C701 | QETB1HM-225 | 2.2MF | 50V ELECTRO | |
| C702 | QETB1HM-225 | 2.2MF | 50V ELECTRO | |
| C703 | QCS21HJ-221 | 220PF | 50V CERAMIC | B |
| C704 | QCS21HJ-221 | 220PF | 50V CERAMIC | C |
| C705 | QCS21HJ-680 | 68PF | 50V CERAMIC | B |
| C705 | QCS21HJ-680 | 68PF | 50V CERAMIC | C |
| C705 | QCS21HJ-680 | 68PF | 50V CERAMIC | E |
| C705 | QCS21HJ-680 | 68PF | 50V CERAMIC | FBS |
| C705 | QCS21HJ-680 | 68PF | 50V CERAMIC | G |
| C706 | QCS21HJ-680 | 68PF | 50V CERAMIC | B |
| C706 | QCS21HJ-680 | 68PF | 50V CERAMIC | C |
| C706 | QCS21HJ-680 | 68PF | 50V CERAMIC | E |
| C706 | QCS21HJ-680 | 68PF | 50V CERAMIC | FBS |
| C706 | QCS21HJ-680 | 68PF | 50V CERAMIC | G |
| C707 | QETB1AM-476 | 47MF | 10V ELECTRO | |
| C708 | QETB1AM-476 | 47MF | 10V ELECTRO | |
| C709 | QCS21HJ-100 | 10PF | 50V CERAMIC | |
| C710 | QCS21HJ-100 | 10PF | 50V CERAMIC | |
| C711 | QETB1EM-476 | 47MF | 25V ELECTRO | |
| C712 | QETB1EM-476 | 47MF | 25V ELECTRO | |
| C713 | QETB1HM-106 | 10MF | 50V ELECTRO | |
| C715 | QETB1HM-106 | 10MF | 50V ELECTRO | |
| C717 | QFN81HK-223 | 0.022MF | 50V MYLAR | B |
| C717 | QFN81HK-223 | 0.022MF | 50V MYLAR | C |
| C717 | QFN81HK-473 | 0.047MF | 50V MYLAR | E |
| C717 | QFN81HK-473 | 0.047MF | 50V MYLAR | FBS |
| C717 | QFN81HK-473 | 0.047MF | 50V MYLAR | G |
| C717 | QFN81HK-473 | 0.047MF | 50V MYLAR | H |
| C718 | QFN81HK-223 | 0.022MF | 50V MYLAR | B |
| C718 | QFN81HK-223 | 0.022MF | 50V MYLAR | C |
| C718 | QFN81HK-473 | 0.047MF | 50V MYLAR | E |
| C718 | QFN81HK-473 | 0.047MF | 50V MYLAR | FBS |
| C718 | QFN81HK-473 | 0.047MF | 50V MYLAR | G |
| C718 | QFN81HK-473 | 0.047MF | 50V MYLAR | H |
| C719 | QFN81HK-473 | 0.047MF | 50V MYLAR | E |
| C719 | QFN81HK-473 | 0.047MF | 50V MYLAR | FBS |
| C719 | QFN81HK-473 | 0.047MF | 50V MYLAR | G |
| C719 | QFN81HK-473 | 0.047MF | 50V MYLAR | H |
| C720 | QFN81HK-473 | 0.047MF | 50V MYLAR | E |
| C720 | QFN81HK-473 | 0.047MF | 50V MYLAR | FBS |
| C720 | QFN81HK-473 | 0.047MF | 50V MYLAR | G |
| C721 | QFN81HK-103 | 0.01MF | 50V MYLAR | H |
| C722 | QFN81HK-103 | 0.01MF | 50V MYLAR | H |
| C733 | QCS21HJ-470 | 47PF | 50V CERAMIC | H |
| C734 | QCS21HJ-470 | 47PF | 50V CERAMIC | H |
| C801 | QEZ0061-478 | 4700MF | 50V NON POLE | B |
| C801 | QEZ0072-338 | 3300MF | NON POLE | C |
| C801 | QEZ0072-338 | 3300MF | NON POLE | E |
| C801 | QEZ0072-338 | 3300MF | NON POLE | FBS |
| C801 | QEZ0072-338 | 3300MF | NON POLE | G |
| C802 | QEZ0072-338 | 4700MF | 50V NON POLE | B |
| C802 | QEZ0072-338 | 3300MF | NON POLE | C |
| C802 | QEZ0072-338 | 3300MF | NON POLE | E |
| C802 | QEZ0072-338 | 3300MF | NON POLE | FBS |
| C802 | QEZ0072-338 | 3300MF | NON POLE | G |
| C802 | QEZ0072-338 | 3300MF | NON POLE | H |
| C803 | QFM82AK-473 | 0.047MF | 100V MYLAR | |
| C804 | QFM82AK-104 | 0.1MF | 100V MYLAR | H |
| C804 | QFM82AK-473 | 0.047MF | 100V MYLAR | B |
| C804 | QFM82AK-473 | 0.047MF | 100V MYLAR | E |
| C804 | QFM82AK-473 | 0.047MF | 100V MYLAR | FBS |
| C804 | QFM82AK-473 | 0.047MF | 100V MYLAR | G |
| C805 | QETB1CM-476 | 47MF | 16V ELECTRO | |
| C806 | QETB1CM-476 | 47MF | 16V ELECTRO | |
| C815 | QCY21HK-472 | 4700PF | 50V CERAMIC | H |
| C901 | QETB1HM-226 | 22MF | 50V ELECTRO | |
| C902 | QETB1AM-107 | 100MF | 10V ELECTRO | |
| C904 | QETB1HM-105 | 1MF | 50V ELECTRO | |
| C905 | QETB1CM-226 | 22MF | 16V ELECTRO | |

△ : SAFETY PARTS

RESISTORS

| △ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|---------------|-------------|---------------------|
| | R351 | QRD148J-471S | 470 | 1/4W CARBON |
| | R352 | QRD148J-471S | 470 | 1/4W CARBON |
| | R353 | QRD148J-472S | 4.7K | 1/4W CARBON |
| | R354 | QRD148J-472S | 4.7K | 1/4W CARBON |
| | R355 | QRD148J-223S | 22K | 1/4W CARBON |
| | R356 | QRD148J-223S | 22K | 1/4W CARBON |
| | R357 | QVWA01W-EF5E | | VARIABLE |
| | R359 | QVN9A3B-5F5V | | VARIABLE |
| | R367 | QRD148J-151S | 150 | 1/4W CARBON |
| | R368 | QRD148J-151S | 150 | 1/4W CARBON |
| | R501 | QVUB01C-E15F | | VARIABLE |
| | R503 | QRD148J-203S | 20K | 1/4W CARBON |
| | R504 | QRD148J-203S | 20K | 1/4W CARBON |
| | R505 | QRD148J-362S | 3.6K | 1/4W CARBON |
| | R506 | QRD148J-362S | 3.6K | 1/4W CARBON |
| | R511 | QVUB01C-E15F | | VARIABLE |
| | R513 | QRD148J-472S | 4.7K | 1/4W CARBON |
| | R514 | QRD148J-472S | 4.7K | 1/4W CARBON |
| | R515 | QRD148J-821S | 820 | 1/4W CARBON |
| | R516 | QRD148J-821S | 820 | 1/4W CARBON |
| | R701 | QRD148J-222S | 2.2K | 1/4W CARBON |
| | R702 | QRD148J-222S | 2.2K | 1/4W CARBON |
| | R703 | QRD148J-104S | 100K | 1/4W CARBON |
| | R704 | QRD148J-104S | 100K | 1/4W CARBON |
| | R705 | QRD148J-751S | 750 | 1/4W CARBON |
| | R706 | QRD148J-751S | 750 | 1/4W CARBON |
| | R707 | QRD148J-133S | 13K | 1/4W CARBON |
| | R708 | QRD148J-133S | 13K | 1/4W CARBON |
| | R709 | QRD148J-823S | 82K | 1/4W CARBON |
| | R710 | QRD148J-823S | 82K | 1/4W CARBON |
| △ | R711 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON E |
| △ | R711 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON FBS |
| △ | R711 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON G |
| △ | R711 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON H |
| △ | R711 | QRD148J-222S | 2.2K | 1/4W CARBON B |
| △ | R711 | QRD148J-222S | 2.2K | 1/4W CARBON C |
| △ | R712 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON E |
| △ | R712 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON FBS |
| △ | R712 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON G |
| △ | R712 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON H |
| △ | R712 | QRD148J-222S | 2.2K | 1/4W CARBON H |
| △ | R712 | QRD148J-222S | 2.2K | 1/4W CARBON E |
| △ | R712 | QRD148J-222S | 2.2K | 1/4W CARBON C |
| △ | R712 | QRD148J-222S | 2.2K | 1/4W CARBON B |
| △ | R712 | QRD148J-222S | 2.2K | 1/4W CARBON G |
| △ | R712 | QRD148J-222S | 2.2K | 1/4W CARBON FBS |
| △ | R713 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON E |
| △ | R713 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON FBS |
| △ | R713 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON G |
| △ | R713 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON H |
| △ | R713 | QRD148J-222S | 2.2K | 1/4W CARBON B |
| △ | R713 | QRD148J-222S | 2.2K | 1/4W CARBON C |
| △ | R714 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON E |
| △ | R714 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON FBS |
| △ | R714 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON G |
| △ | R714 | QRD145J-222S | 2.2K | 1/4W UNF.CARBON H |
| △ | R714 | QRD148J-222S | 2.2K | 1/4W CARBON B |
| △ | R714 | QRD148J-222S | 2.2K | 1/4W CARBON C |
| △ | R714 | QRD148J-222S | 2.2K | 1/4W CARBON H |
| △ | R715 | QRD148J-272S | 2.7K | 1/4W CARBON |
| △ | R717 | QRD148J-272S | 2.7K | 1/4W CARBON |
| △ | R719 | QRX022J-R22AF | 0.22 | 2W M.FILM |
| △ | R720 | QRX022J-R22AF | 0.22 | 2W M.FILM |
| △ | R721 | QRD148J-272S | 2.7K | 1/4W CARBON |
| △ | R723 | QRD145J-330S | 33 | 1/4W UNF.CARBON H |
| △ | R724 | QRD145J-330S | 33 | 1/4W UNF.CARBON H |
| △ | R725 | QRD145J-100S | 10 | 1/4W UNF.CARBON H |
| △ | R726 | QRD145J-100S | 10 | 1/4W UNF.CARBON H |
| △ | R727 | QRG012J-221A | 220 | 1W O.M.FILM |
| △ | R728 | QRG012J-221A | 220 | 1W O.M.FILM |
| △ | R729 | QRD145J-100S | 10 | 1/4W UNF.CARBON H |
| △ | R730 | QRD145J-100S | 10 | 1/4W UNF.CARBON H |
| △ | R733 | QRD145J-5R6S | 5.6 | 1/4W UNF.CARBON H |
| △ | R737 | QRD145J-100S | 10 | 1/4W UNF.CARBON B |
| △ | R737 | QRZ0062-100 | 10 | 1/4W FUSIBLE C |
| △ | R737 | QRZ0062-100 | 10 | 1/4W FUSIBLE E |
| △ | R737 | QRZ0062-100 | 10 | 1/4W FUSIBLE FBS |
| △ | R737 | QRZ0062-100 | 10 | 1/4W FUSIBLE G |
| △ | R737 | QRZ0062-100 | 10 | 1/4W FUSIBLE H |
| △ | R801 | QRG012J-152A | 1.5K | 1W O.M.FILM |
| △ | R802 | QRG012J-152A | 1.5K | 1W O.M.FILM |
| △ | R803 | QRG012J-222A | 2.2K | 1W O.M.FILM |
| △ | R805 | QRD148J-471S | 470 | 1/4W CARBON |
| △ | R806 | QRD148J-471S | 470 | 1/4W CARBON |
| △ | R901 | QRD148J-152S | 1.5K | 1/4W CARBON |

RESISTORS

| △ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|-------------|-----------------|
| | R902 | QRD148J-152S | 1.5K | 1/4W CARBON |
| | R903 | QRD148J-562S | 5.6K | 1/4W CARBON |
| | R904 | QRD148J-562S | 5.6K | 1/4W CARBON |
| | R905 | QRD148J-123S | 12K | 1/4W CARBON |
| | R906 | QRD148J-123S | 12K | 1/4W CARBON |
| | R907 | QRD148J-103S | 10K | 1/4W CARBON |
| | R908 | QRD148J-332S | 3.3K | 1/4W CARBON |
| | R909 | QRD148J-104S | 100K | 1/4W CARBON |
| | R910 | QRD148J-823S | 82K | 1/4W CARBON |
| | R911 | QRD148J-104S | 100K | 1/4W CARBON |
| | R912 | QRD148J-473S | 4.7K | 1/4W CARBON |
| | R913 | QRD148J-683S | 68K | 1/4W CARBON |
| | R914 | QRD148J-563S | 56K | 1/4W CARBON |
| | R915 | QRD148J-822S | 8.2K | 1/4W CARBON |
| | R916 | QRD148J-123S | 12K | 1/4W CARBON |
| | R917 | QRD148J-472S | 4.7K | 1/4W CARBON |
| | R918 | QRD148J-682S | 6.8K | 1/4W CARBON |
| | R919 | QRD148J-224S | 220K | 1/4W CARBON |
| △ | R920 | QRD145J-470S | 47 | 1/4W UNF.CARBON |
| △ | R921 | QRG022J-471A | 470 | 2W O.M.FILM |
| △ | R922 | QRD148J-183S | 18K | 1/4W CARBON |
| △ | R923 | QRD145J-151S | 150 | 1/4W UNF.CARBON |

△ : SAFETY PARTS

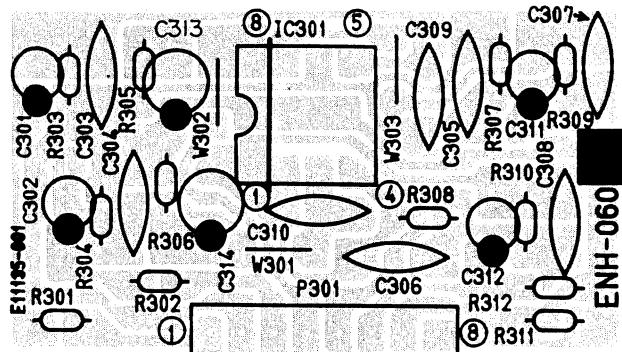
OTHERS

| △ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|---------------|--------------------|------|
| | | EMG7331-001 | FUSE CLIP | B |
| | | EMG7331-001 | FUSE CLIP | E |
| | | EMG7331-001 | FUSE CLIP | FBS |
| | | EMG7331-001 | FUSE CLIP | G |
| | | EMG7331-001 | FUSE CLIP | H |
| | | ENH-060A | CIRCUIT BOARD ASSY | B |
| | | ENH-060A | CIRCUIT BOARD ASSY | C |
| | | ENH-060A | CIRCUIT BOARD ASSY | E |
| | | ENH-060A | CIRCUIT BOARD ASSY | FBS |
| | | ENH-060A | CIRCUIT BOARD ASSY | G |
| | | ENH-060B | CIRCUIT BOARD ASSY | H |
| | | E11299-002 | CIRCUIT BOARD | B |
| | | E11299-002 | CIRCUIT BOARD | C |
| | | E11299-002 | CIRCUIT BOARD | E |
| | | E11299-002 | CIRCUIT BOARD | G |
| | | E11299-002 | CIRCUIT BOARD | H |
| | | E11299-002 | CIRCUIT BOARD | FBS |
| | | E11299-002 | CIRCUIT BOARD | |
| | | E33754-001 | TIE BAND | |
| | | E65508-002 | TAB | B |
| | | E65508-002 | TAB | E |
| | | E65508-002 | TAB | FBS |
| | | E65508-002 | TAB | G |
| | | E65508-002 | TAB | H |
| | | E70859-001 | EARTH PLATE | |
| | | E72257-001 | EARTH PLATE | |
| | J001 | QMC0638-001 | AC SOCKET | B |
| | J361 | EMN00TV-405A | PIN JACK ASSY | |
| | J362 | EMN00TV-405A | PIN JACK ASSY | |
| | J363 | EMN00TV-602A | PIN JACK ASSY | |
| | J364 | EMN00TV-602A | PIN JACK ASSY | |
| | J365 | EMN00TV-602A | PIN JACK ASSY | |
| | J701 | QMS6312-020 | JACK ASSY | |
| | J702 | EMLB90YV-401A | SPEAKER TERMINAL | |
| | L701 | EQL0001-R45 | INDUCTOR | H |
| △ | L702 | EQL0001-R45 | INDUCTOR | H |
| | S001 | QSP1106-004 | PUSH SWITCH | B |
| | S001 | QSP1106-004 | PUSH SWITCH | E |
| | S001 | QSP1106-004 | PUSH SWITCH | G |
| | S001 | QSP1106-004 | PUSH SWITCH | H |
| △ | S001 | QSP1106-004BS | PUSH SWITCH | FBS |
| | S301 | QST94A2-E01 | PUSH SWITCH | |
| | S302 | QST94A2-E01 | PUSH SWITCH | |
| | S303 | QST94A2-E01 | PUSH SWITCH | |
| | S304 | QST94A2-E01 | PUSH SWITCH | |
| | S305 | QST9101-E07 | PUSH SWITCH | |
| | RY901 | ESK5D24-218 | RELAY | |

△ : SAFETY PARTS

ENH-060 Equalizer Module PC Board Ass'y

Note: ENH-060 □ varies according to the areas employed. See note (1) when placing an order.

Note (1)

| P.C. Board Ass'y | Designated Areas |
|------------------|-------------------------|
| ENH-060 [A] | Except for West Germany |
| ENH-060 [B] | West Germany |

ICs

| △ Item No. | Part Number | Description | | Areas |
|------------|------------------|-------------|-----|-------|
| | | Maker | | |
| | IC301 NJM4558D-D | IC | JRC | |

Capacitors

| △ Item No. | Part Number | Description | | | Areas |
|------------|------------------|-------------|-----|---------|-------|
| | C301 QETC1HM-475 | 4.7μF | 50V | ELECTRO | |
| | C302 QETC1HM-475 | 4.7μF | 50V | ELECTRO | |
| | C303 QCY31HK-101 | 100pF | 50V | CERAMIC | A |
| | C303 QCY31HK-471 | 470pF | 50V | CERAMIC | B |
| | C304 QCY31HK-101 | 100pF | 50V | CERAMIC | A |
| | C304 QCY31HK-471 | 470pF | 50V | CERAMIC | B |
| | C305 QCY31HK-182 | 1800pF | 50V | CERAMIC | |
| | C306 QCY31HK-182 | 1800pF | 50V | CERAMIC | |
| | C307 QCY31HK-682 | 6800pF | 50V | CERAMIC | |
| | C308 QCY31HK-682 | 6800pF | 50V | CERAMIC | |
| | C309 QCY31HK-101 | 100pF | 50V | CERAMIC | |
| | C310 QCY31HK-101 | 100pF | 50V | CERAMIC | |
| | C311 QETC1HK-475 | 4.7μF | 50V | ELECTRO | |
| | C312 QETC1HK-475 | 4.7μF | 50V | ELECTRO | |
| | C313 QETC1AM-476 | 47μF | 10V | ELECTRO | |
| | C314 QETC1AM-476 | 47μF | 10V | ELECTRO | |

△: Safety Parts

Resistors

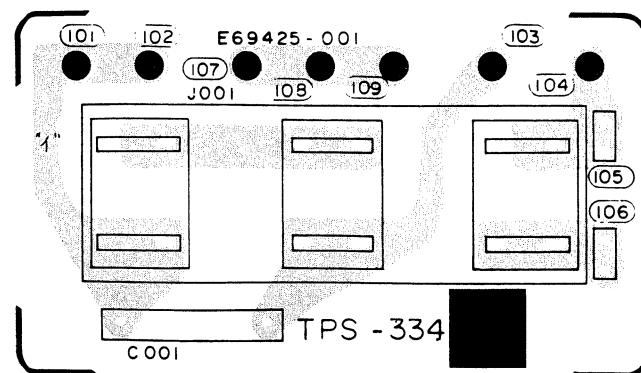
| △ Item No. | Part Number | Description | | | Areas |
|------------|-------------|-------------|------|--------|-------|
| R301 | QRD161J-222 | 2.2K | 1/6W | CARBON | |
| R302 | QRD161J-222 | 2.2K | 1/6W | CARBON | |
| R303 | QRD161J-473 | 47K | 1/6W | CARBON | |
| R304 | QRD161J-473 | 47K | 1/6W | CARBON | |
| R305 | QRD161J-751 | 750 | 1/6W | CARBON | |
| R306 | QRD161J-751 | 750 | 1/6W | CARBON | |
| R307 | QRD161J-393 | 39K | 1/6W | CARBON | |
| R308 | QRD161J-393 | 39K | 1/6W | CARBON | |
| R309 | QRD161J-475 | 470K | 1/6W | CARBON | |
| R310 | QRD161J-475 | 470K | 1/6W | CARBON | |
| R311 | QRD161J-104 | 100K | 1/6W | CARBON | |
| R312 | QRD161J-104 | 100K | 1/6W | CARBON | |

Others

| △ Item No. | Part Number | Description | | Areas |
|------------|----------------------------|-----------------------------|--|-------|
| P301 | EMV5101-008B E11135-001 | PLUG ASS'Y CIRCUIT BOARD | | |

TPS-334[A] AC Outlet PC Board Ass'y

(Except for U.S.A., Canada, Europe, West Germany, Australia & U.K)



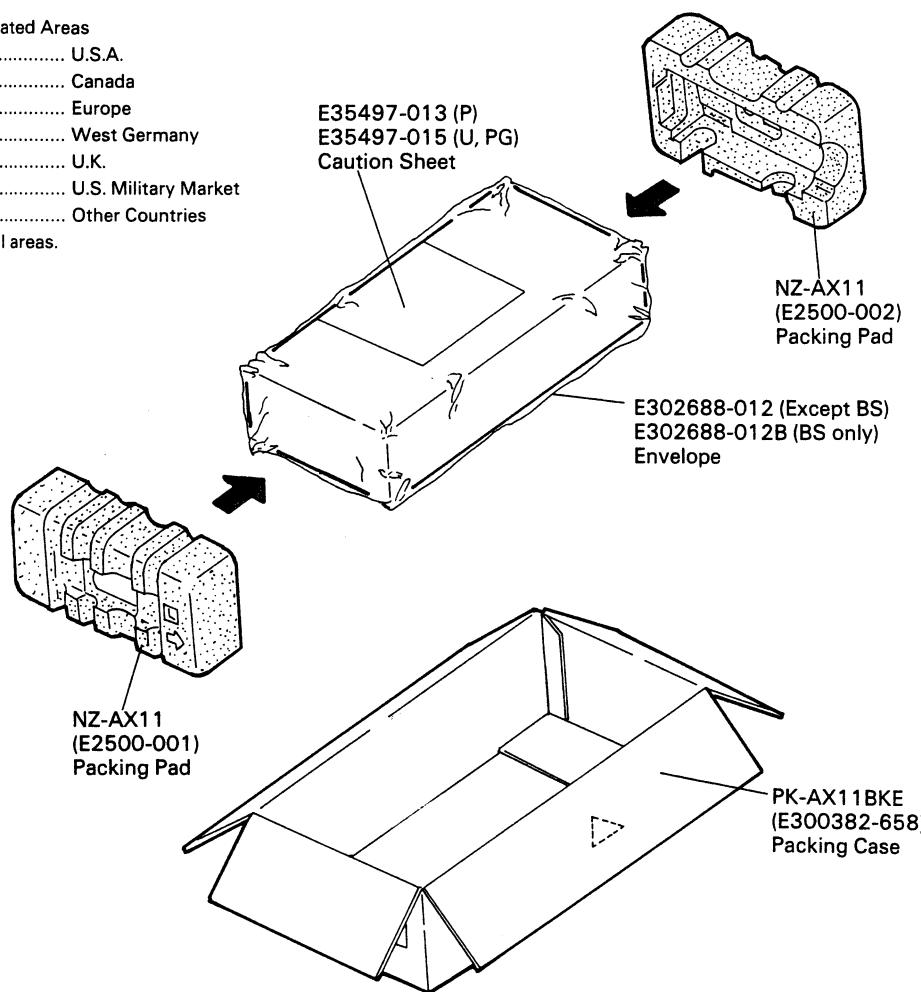
| △ Item No. | Part Number | Description | | Areas |
|------------|--|--|--|-------|
| △ C001 | QFZ9010-103 QMC0637-004 E43727-001 E65508-002 E69425-001 | M. MYLAR 3P AC OUT LET TAB TAB CIRCUIT BOARD | | |

△: Safety Parts

Packing Materials and Part Numbers

The Marks for Designated Areas

J U.S.A.
 C Canada
 E Europe
 G West Germany
 BS U.K.
 P, PG U.S. Military Market
 U Other Countries
 No marks indicates all areas.



Accessories List

| ▲ | Part Number | Part Name | Description | Areas |
|--------|--|---|-------------|---------------------------------------|
| | E30580-1311A E30580-1311ABS BT20048B BT20025H BT20064 | Instruction Book Instruction Book Warranty Card Warranty Card Warranty Card | | Except BS BS J, P, PG C G |
| | BT20029C BT20060 BT20044E BT20046B BT20071A | Warranty Card Warranty Card Safety Instruction Sheet Service Information Service Center | | A BS J J, P, PG C |
| △ △ | BT20066 QZL1008-001 QMF51A2-1R6S QMF51A2-R80S E66416-003 | EEC Agency FTZ Information Sheet Fuse Fuse Envelope | | G, BS G U, PG P J |
| | E412O2-2 E412O2-2B E6581-4 | Envelope Envelope Envelope | | Except BS BS U, P, PG |

△ : Safety Parts